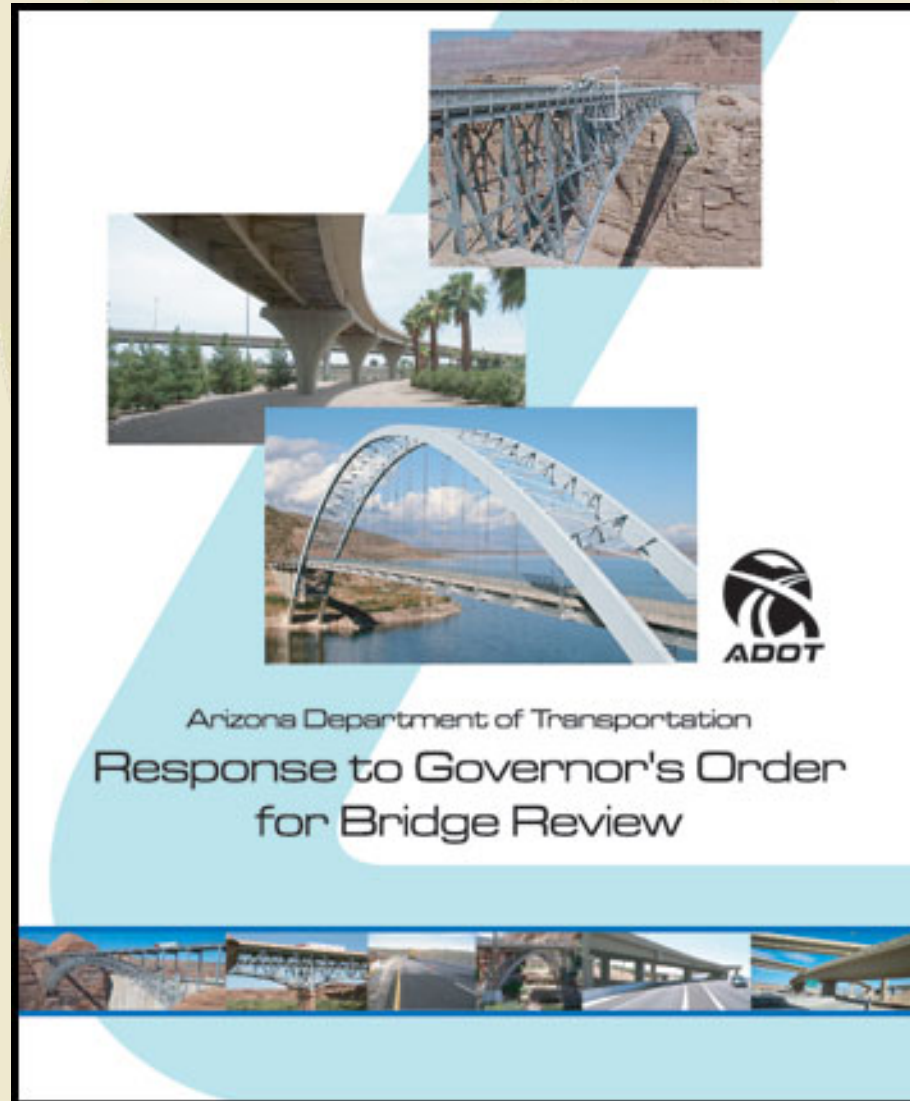




**ADOT Presentation
to the
Arizona State Legislature
Blue Ribbon Transportation Committee
October 25, 2007**



ADOT Bridge Presentation





Bridge Definition and Inventory

- 4,720 bridges on the state highway system.
- The federal definition of a bridge states that highway structures spanning or having a combined span of at least 20 feet are classified as bridges and must be inventoried and inspected.





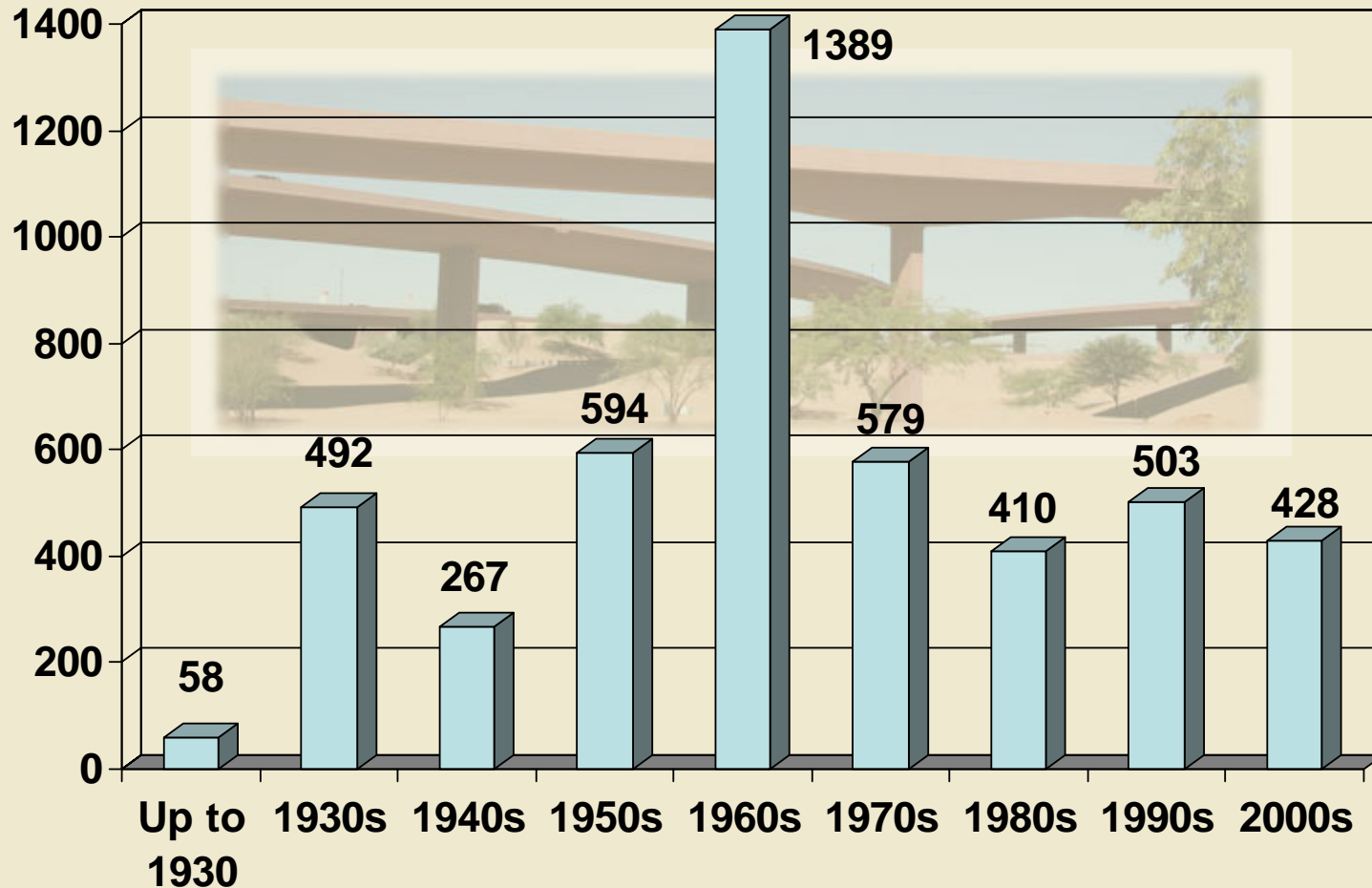
Important Definitions

- **Structurally Deficient (SD):** a component of the bridge needs to be repaired.
- **Functionally Obsolete (FO):** a geometric feature of the bridge is sub-standard.
- **Sufficiency Rating (SR):** a numeric value indicative of a bridge's sufficiency to remain in service.

A 'structurally deficient' or 'functionally obsolete' rating does not mean a particular bridge is unsafe!



Number of Bridges Built by Decade





Status of Bridges on the State Highway System

- Arizona's bridges consistently rate amongst the best in the Nation.
- Some of the factors that contribute to this excellent rating are: the mild climate, high percentage of newer bridges, and ADOT's commitment to preserving the state highway infrastructure.





National Bridge Inspection Standards

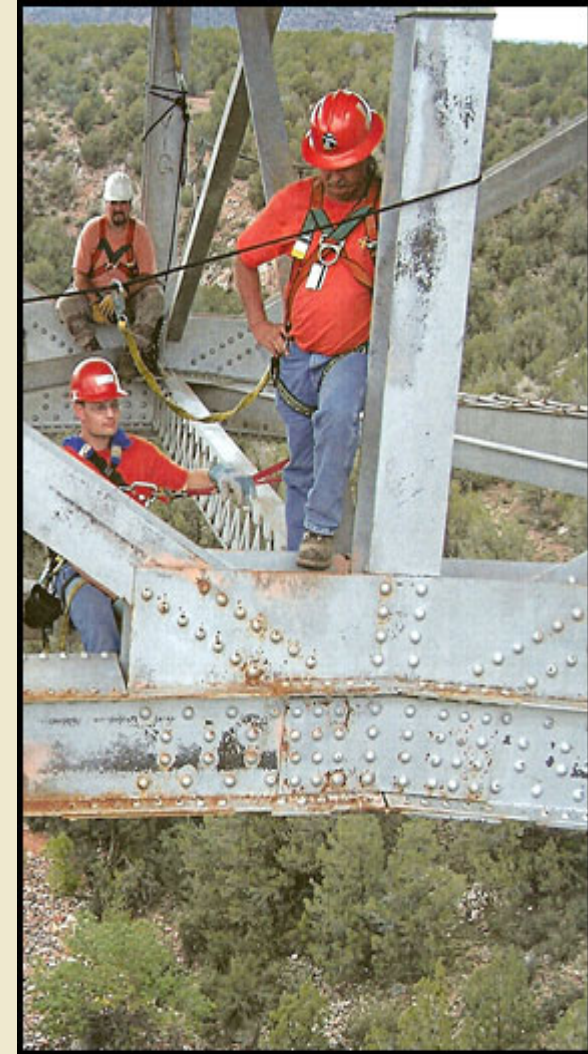
- Federal regulations dictate that every bridge must be inspected every two years.
- Per FHWA, certain culverts are inspected every four years.
- An inventory of all bridges and their inspection results must be submitted annually.





ADOT Bridge Inspection Program

- Currently 4 teams of one engineer and one technician each.
- Received approval to add 2 more teams. Positions are being advertised.
- Consultants are used to supplement in-house staff.
- Per mutual agreement, ADOT inspects local government bridges except for five entities: Maricopa, Pima, Yuma, Coconino, and the City of Phoenix. These local agencies conduct their own bridge inspections.





Bridge Preservation Program

- More than \$20 million dollars annually dedicated specifically for bridge preservation.
- \$10 million is federal funding.
- Additional funding may be applied towards bridge preservation when bridge repair work is part of a larger transportation project.



Bridge Preservation Subprograms (dedicated bridge preservation funding)

- Bridge Replacement (federal)
- Bridge Deck Rehabilitation (state)
- Bridge Scour Retrofit (state)
- Bridge Inspection and Repair (state)



MoveAZ and Beyond: Performance-Based Planning



Performance-Based Planning

- Arizona Revised Statutes define transportation planning practices to be carried out by the ADOT Transportation Planning Division



Performance-Based Planning

- The goal of the performance measures is to determine the extent to which the transportation system is moving people, goods, and services in relation to the cost of system preservation, maintenance, and expansion.” (ARS 28-504)
- “Performance factors and weights . . . shall be used by the department and board to select projects and services in the five-year program and to allocate financial resources” (ARS 28-505)



Performance-Based Planning

- **MoveAZ = Arizona's project-specific, long-range statewide transportation plan**
- **Adheres to state statutes mandating the use of performance measures in planning and programming**
- **Adopted by the State Transportation Board in December 2004**



Performance-Based Planning

Goals of MoveAZ:

- Prioritize long-range planning improvements
- Provide accountability in decision-making
- Provide accurate information to decision makers through defensible, consistent analytical tools
- Provide a means to track the success of transportation investments



Performance-Based Planning

- Each project in MoveAZ was evaluated based on how well it performed according to a set of factors, weights, and measures
- Factors, weights, and measures developed to reflect ARS mandates, Board policies, public and stakeholder input, and departmental goals



Performance Factors

- **Mobility**
- **Safety**
- **Accessibility**
- **Preservation**
- **Reliability**
- **Connectivity**
- **Resource conservation**

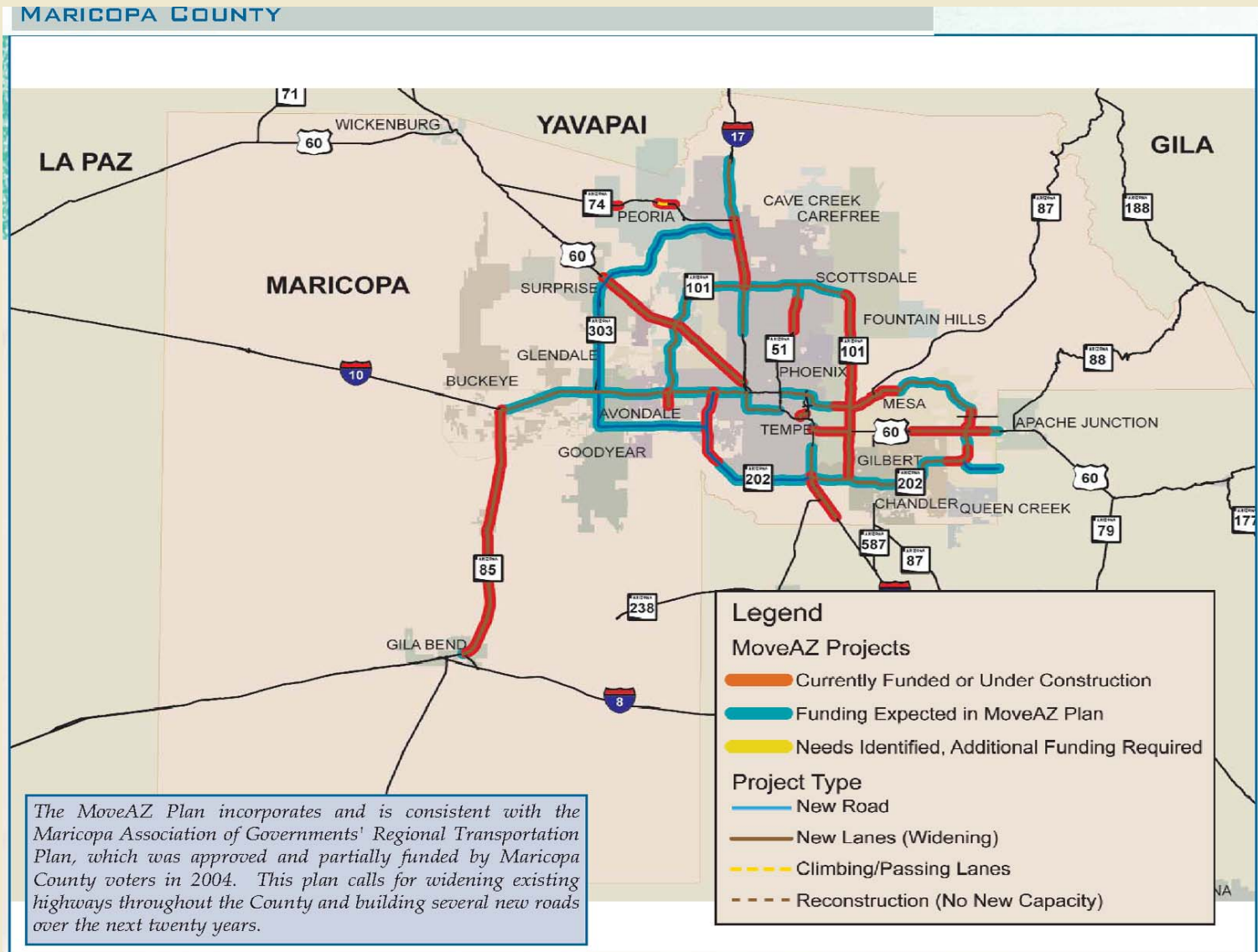


MoveAZ Project Recommendations: Statewide



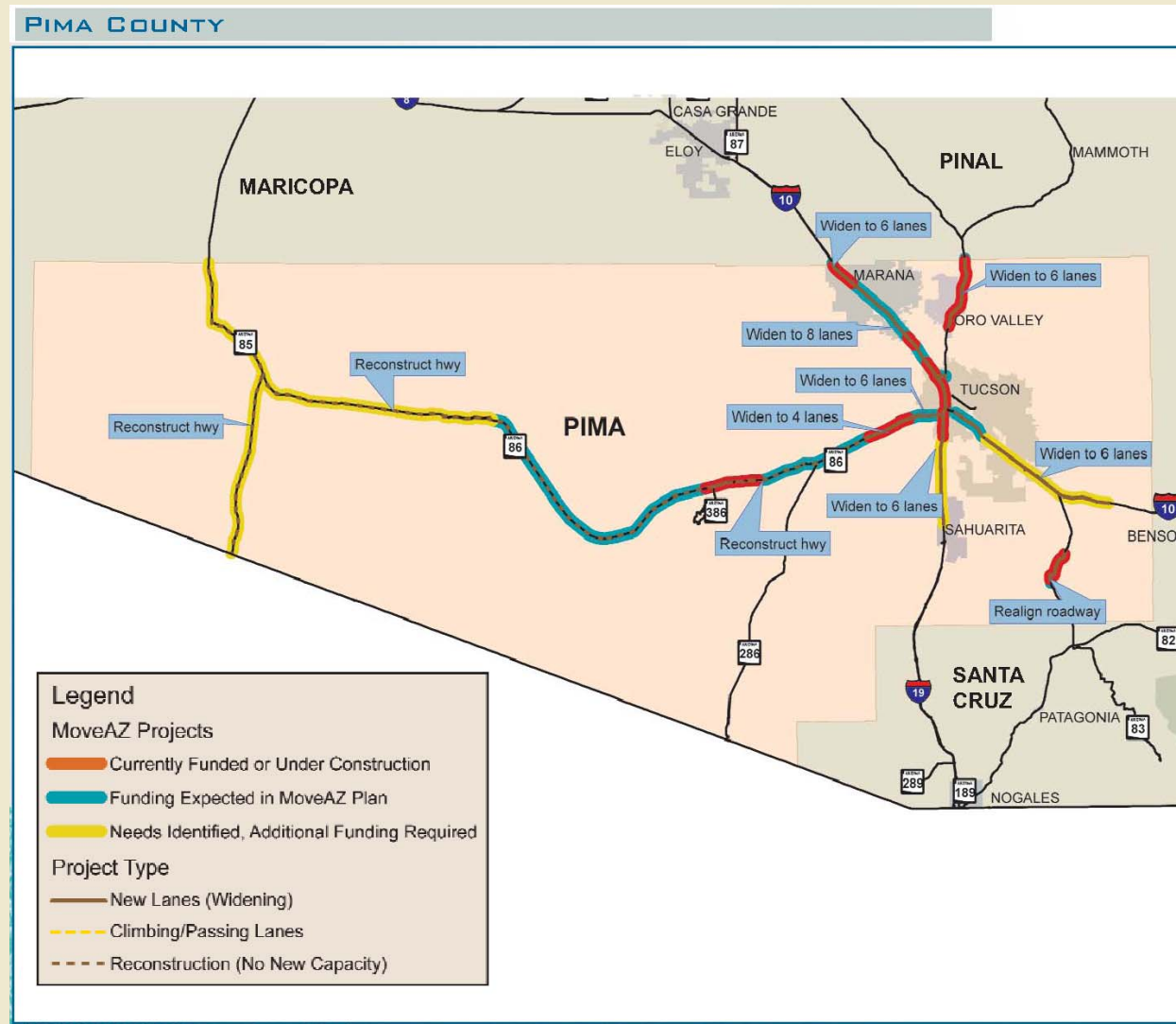


MoveAZ Project Recommendations: Maricopa County





MoveAZ Project Recommendations: Pima County



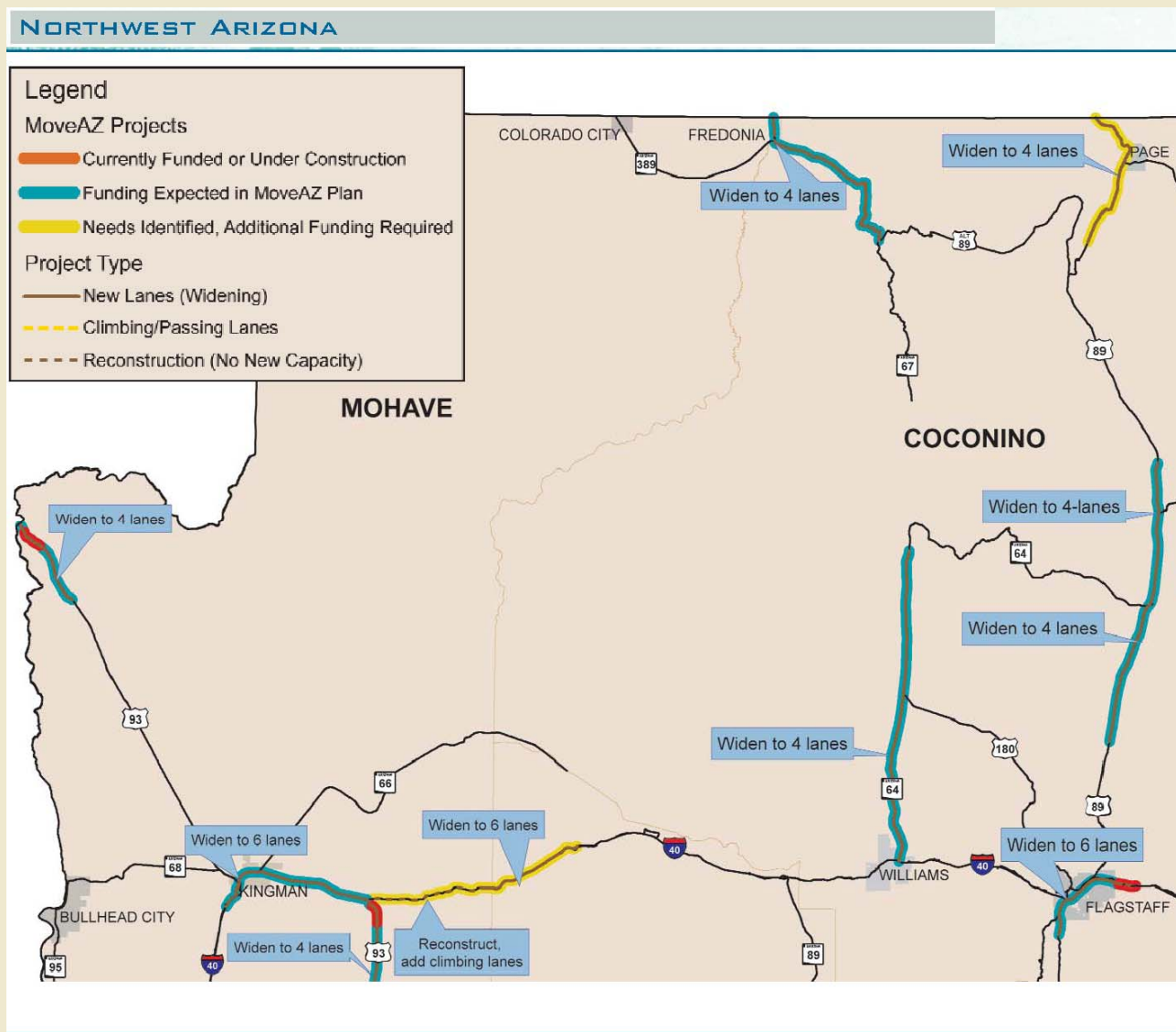


MoveAZ Project Recommendations: Northeast Arizona





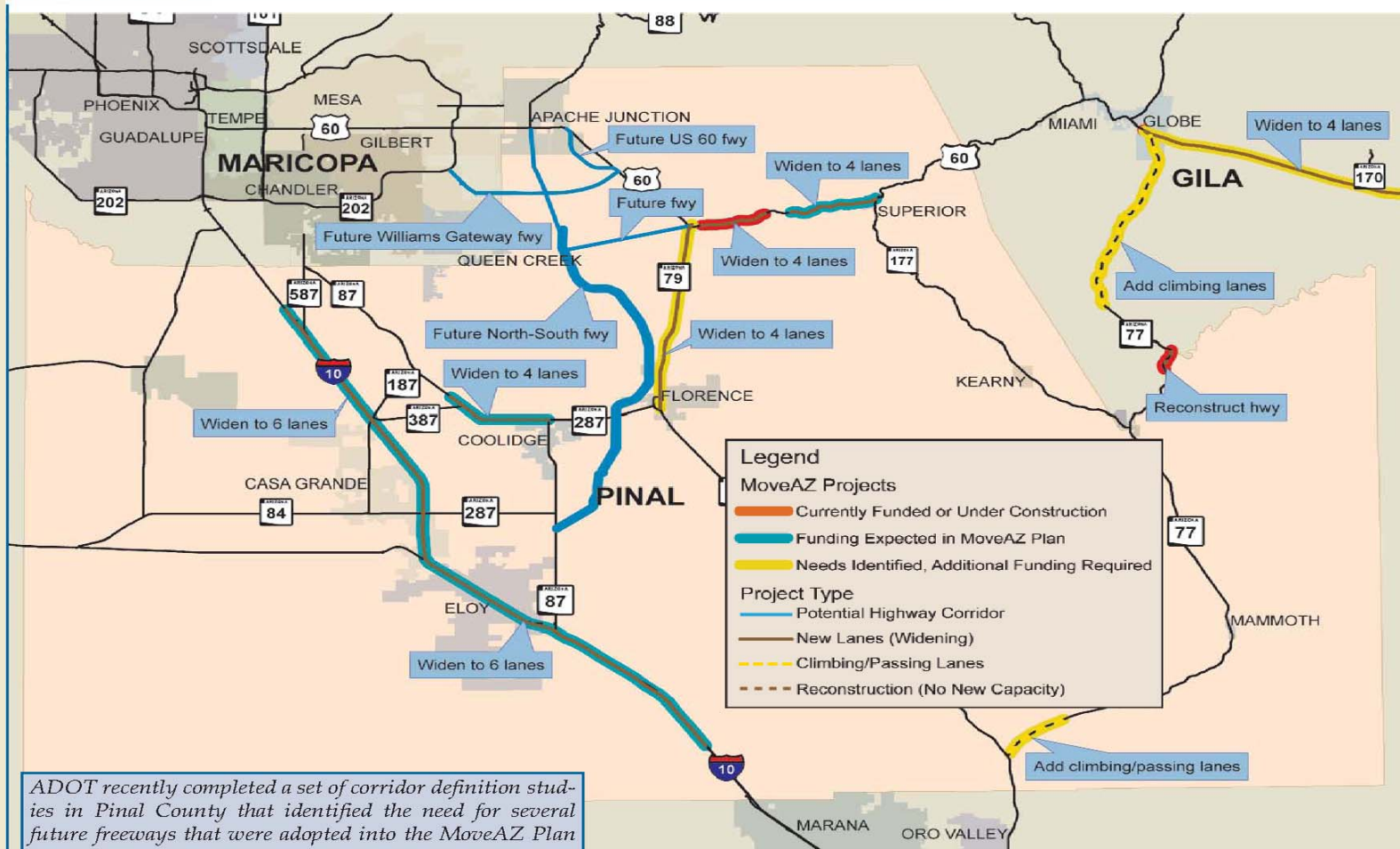
MoveAZ Project Recommendations: Northwest Arizona





MoveAZ Project Recommendations: Pinal County

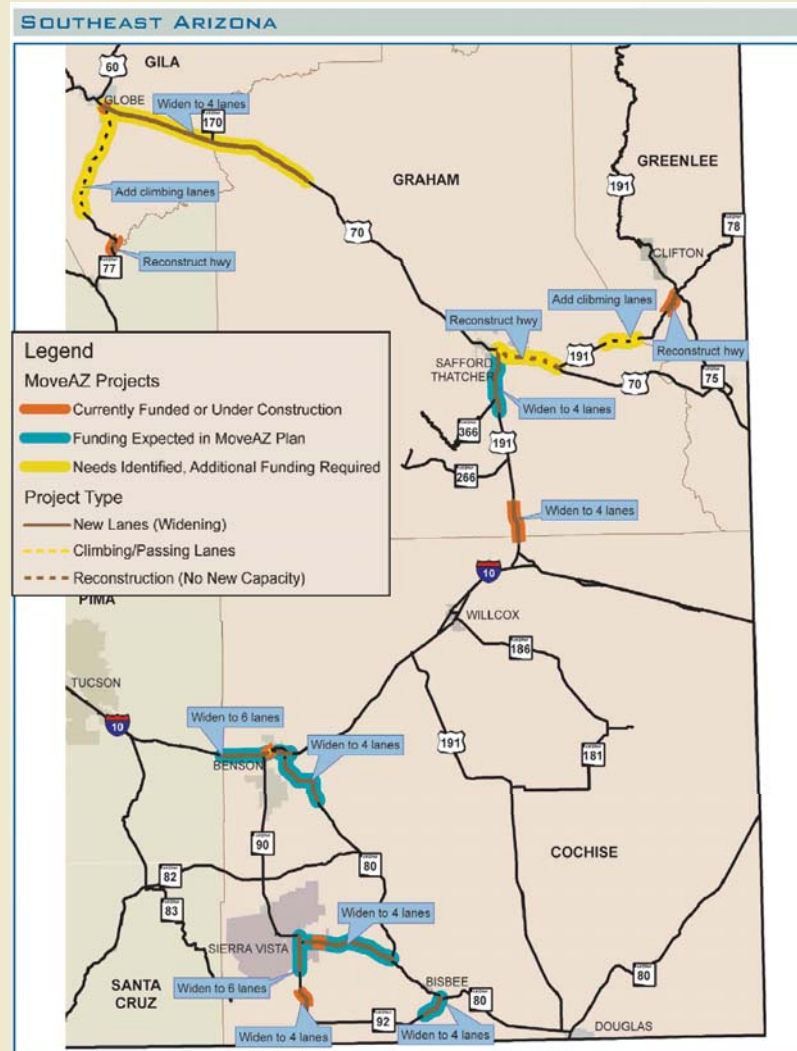
PINAL COUNTY

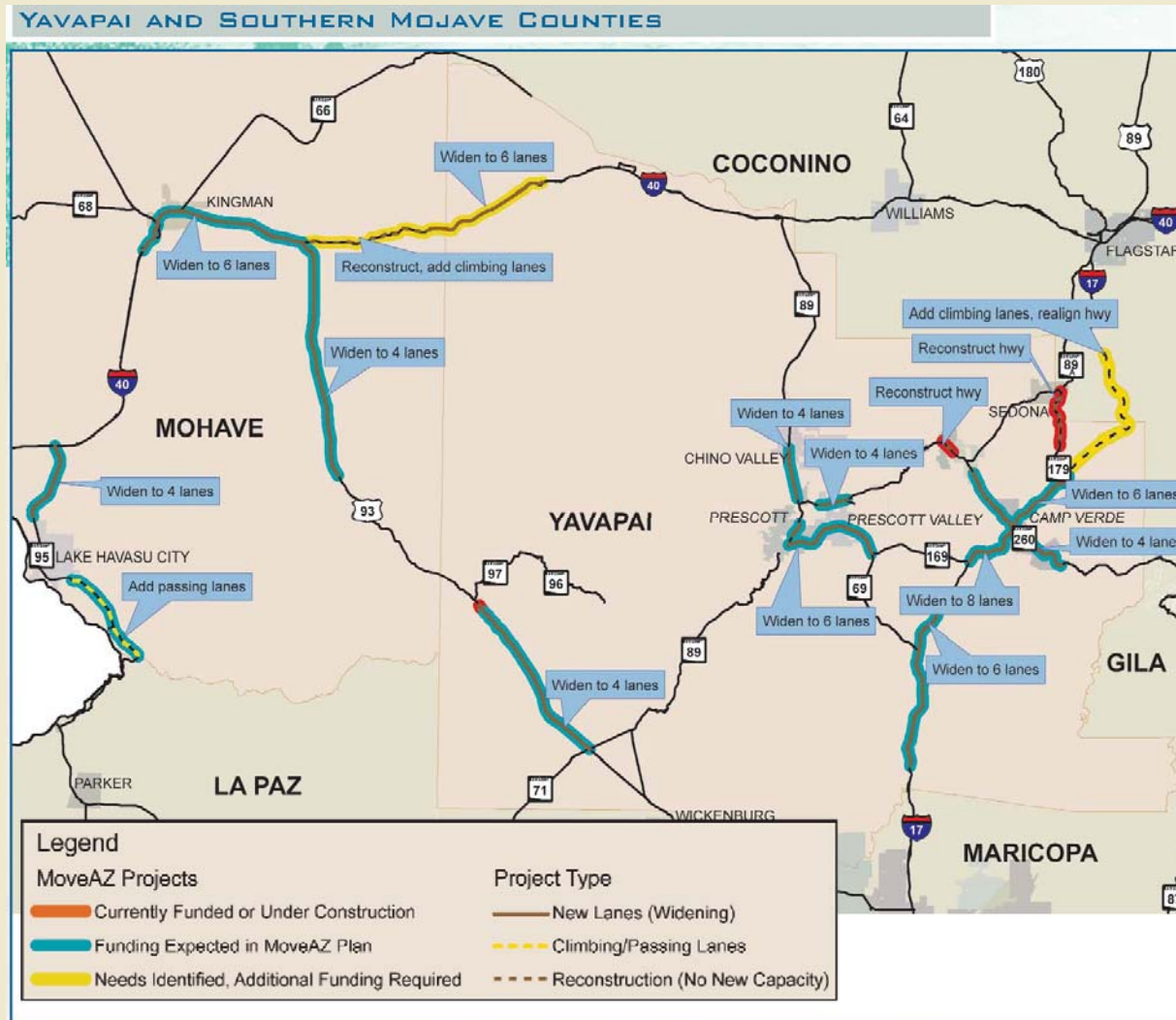


ADOT recently completed a set of corridor definition studies in Pinal County that identified the need for several future freeways that were adopted into the MoveAZ Plan by the Arizona Transportation Board.



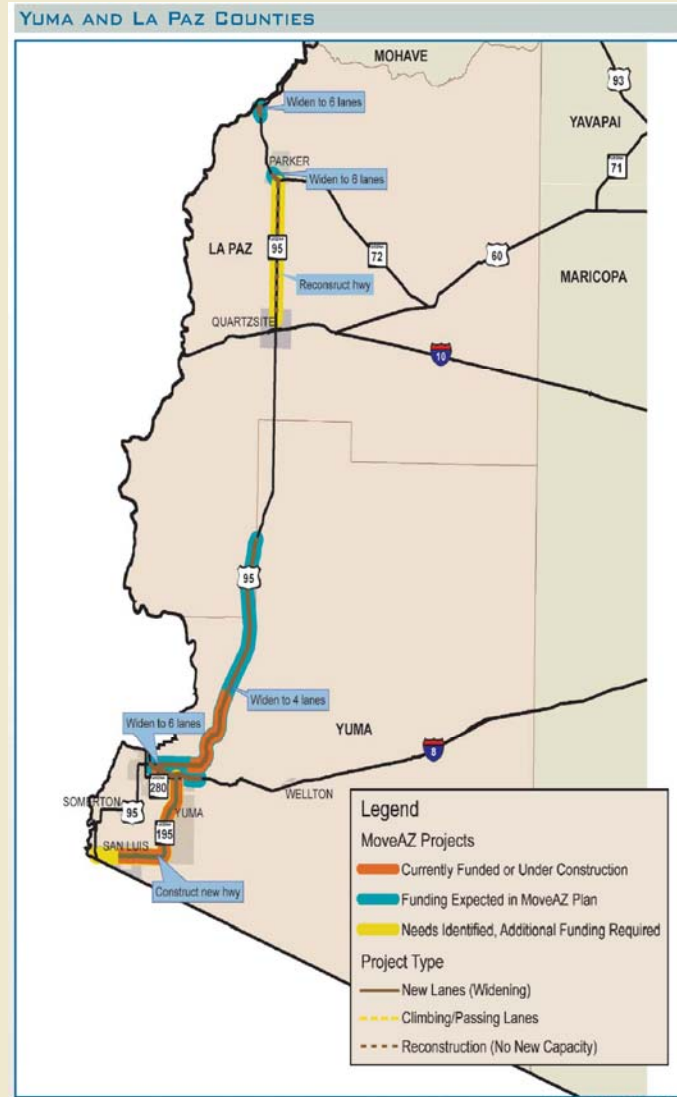
MoveAZ Project Recommendations: Southeast Arizona







MoveAZ Project Recommendations: Yuma and La Paz Counties





Updating MoveAZ

- Update due December 2009
- Assessment of process and products of MoveAZ is ongoing
- New planning considerations:
 - Freight
 - Wildlife linkages
 - Economic effectiveness; benefit/cost
 - Growth-related impacts
 - Other modes of transportation

BUCKLE UP AND DRIVE SAFELY!!



Working together to improve traffic safety.
